



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**INSULATING/INS - LINE 11**  
Machine Id  
**INSULATOR #11 EXTRUDER GBX (S/N G-6168)**  
Component  
**Gearbox**  
Fluid  
**JAX SYNGEAR INDUSTRIAL GEAR ISO 220 (5 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: Gearbox was replaced on 6/9/23 and information was updated on Wear Check website )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>IB0000347</b>	IB0000274	IB0000157
Sample Date		Client Info		<b>13 Nov 2023</b>	31 Oct 2022	29 Oct 2021
Machine Age	hrs	Client Info		<b>64431</b>	62064	59998
Oil Age	hrs	Client Info		<b>506</b>	66743	64677
Filter Age	hrs	Client Info		<b>503</b>	1732	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	N/A
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>&lt;1</b>	7	7
Chromium	ppm	ASTM D5185m	>15	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>15	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>1</b>	0	0
Lead	ppm	ASTM D5185m	>100	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>200	<b>4</b>	3	4
Tin	ppm	ASTM D5185m	>25	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

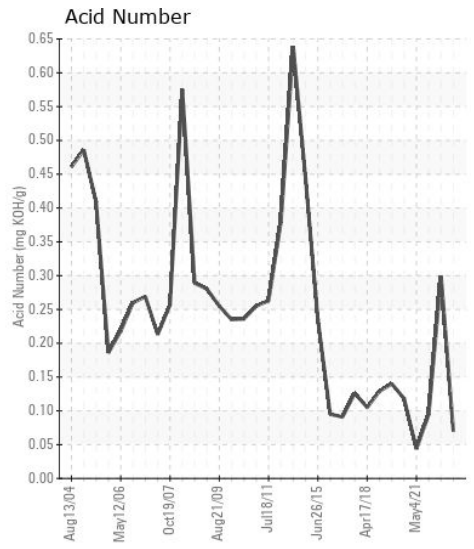
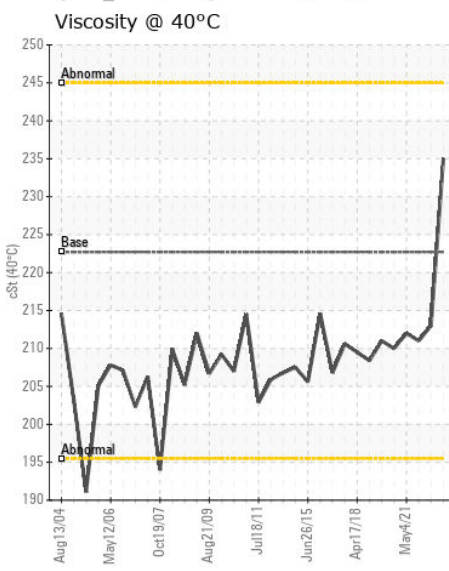
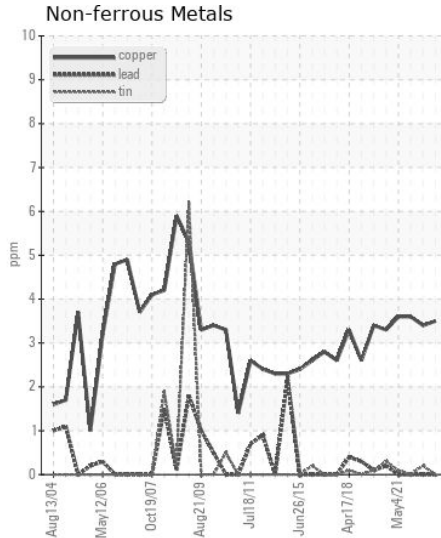
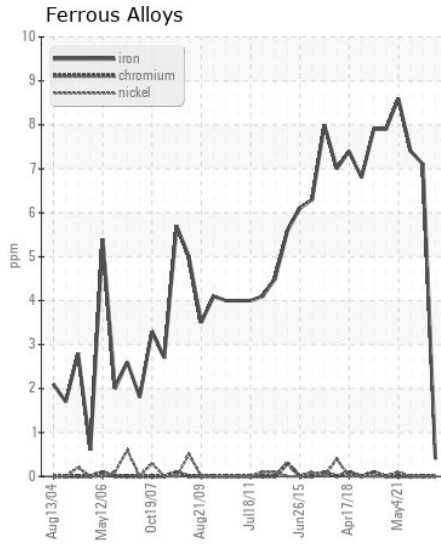
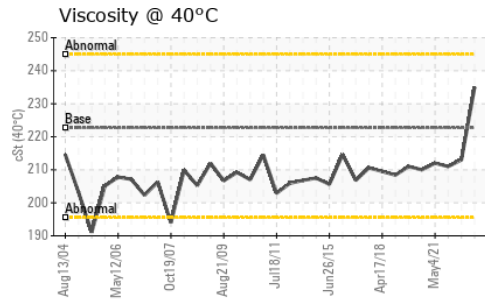
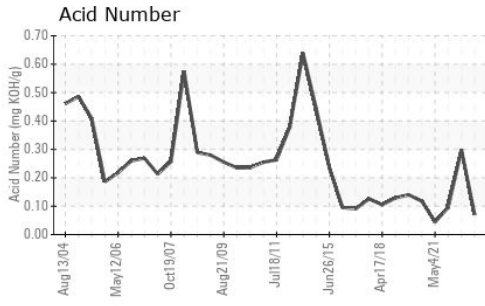
There is no indication of any contamination in the component.

Silicon	ppm	ASTM D5185m	>50	<b>9</b>	4	3
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>0</b>	<1	0
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>6</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>0</b>	0	0
Calcium	ppm	ASTM D5185m		<b>0</b>	0	2
Phosphorus	ppm	ASTM D5185m		<b>555</b>	574	522
Zinc	ppm	ASTM D5185m		<b>0</b>	1	3
Sulfur	ppm	ASTM D5185m		<b>1437</b>	2011	1556
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.07</b>	0.299	0.095
Visc @ 40°C	cSt	ASTM D445	222.7	<b>235</b>	213	211



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : IB0000347  
**Lab Number** : 06009124  
**Unique Number** : 10742886  
**Test Package** : IND 2  
**Received** : 15 Nov 2023  
**Tested** : 16 Nov 2023  
**Diagnosed** : 17 Nov 2023 - Angela Borella

**SUPERIOR TELECOMMUNICATIONS INC**  
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To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)